

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	"6511836".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:14
L4	385	((random\$\$ or optimiz\$\$) adj (spacer or linker)) or (optimiz\$\$ adj (regulator\$\$ or promoter))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:23
L5	0	L4 and ((consensus adj sequence) and TATAAT and TTGACA and (activator adj binding adj (site or region)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:20
L6	0	L4 and ((consensus adj sequence) and TATAAT and TTGACA and ((activator adj binding adj (site or region)) or UAS or UASGCN4p or GCN4p))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:21
L7	3	((consensus adj sequence) and TATAAT and TTGACA and ((activator adj binding adj (site or region)) or UAS or UASGCN4p or GCN4p))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:24
L8	997	((promoter or regulatory) adj (site or region))same (spacer or linker)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:24
L9	0	L8 and (((consensus adj sequence) and TATAAT and TTGACA and ((activator adj binding adj (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:25
L10	0	L8 and ((TATAAT and TTGACA and ((activator adj binding adj (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:28
L11	0	L4 and ((TATAAT and TTGACA and ((activator adj binding adj (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:25

## EAST Search History

L12	2	(optimized or optimize or optimization) with (promoter near (set or library))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:32
L13	9	(optimized or optimize or optimization or artificial) with (promoter near (set or library))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:28
L14	1	L13 and ((TATAAT and TTGACA and ((activator adj binding adj (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:31
L15	2	L13 and ((TATAAT and TTGACA and ((activator or activation near (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:34
L16	41	((TATAAT and TTGACA and ((activator or activation near (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:32
L17	0	L16 and ((optimized or optimize or optimization) with (promoter near (set or library)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:33
L18	18	((optimized or optimize or optimization) same (promoter near (set or library)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:33
L19	18	((optimized or optimize or optimization or randomized or randomize or randomization) same (promoter near (set or library)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:34
L20	4913	((optimized or optimize or optimization or randomized or randomize or randomization) same (promoter ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:48
L21	14	L20 and ((TATAAT and TTGACA and ((activator or activation near (site or region)) or UAS or UASGCN4p or GCN4p)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:39

## EAST Search History

L23	0	L21 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:40
L24	1	L20 and (TATAAT and TTGACA and ((upstream adj activat\$\$) or UAS or UASGCN4p or GCN4p))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:40
L25	5	(TATAAT and TTGACA and ((upstream adj activat\$\$) or UAS or UASGCN4p or GCN4p))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:42
L26	1	L25 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:45
L27	0	L26 and ((optimized or optimize or optimization or randomized or randomize or randomization) same (promoter ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:44
L28	3	(TATAAT and TTGACA and ((upstream adj activat\$\$) or UAS or UASGCN4p or GCN4p) and (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:44
L29	82	(TATAAT and TTGACA and (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:46
L30	26	L29 and ((optimized or optimize or optimization or randomized or randomize or randomization) same (promoter ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:46
L31	1	L30 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:47
L32	4	(TATAAT and TTGACA and activat\$\$) same (spacer or linker)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:46

## EAST Search History

L33	0	L32 and ((optimized or optimize or optimization or randomized or randomize or randomization) same (promoter ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:46
L34	0	L20 and ((TATAAT and TTGACA and activat\$\$) same (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:19
L35	0	L20 and ((TATAAT and TTGACA and activator) same (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:47
L36	0	L20 and ((TATAAT and TTGACA and (activator or activation)) same (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:47
L37	16	L20 and ((TATAAT and TTGACA and (activator or activation)) and (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:48
L38	0	L37 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:50
L39	51	((optimized or optimize or optimization or randomized or randomize or randomization) same (promoter near3 (set or library) ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:49
L40	1	L39 and ((TATAAT and TTGACA and (activator or activation)) and (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:49
L41	86	((optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (promoter near3 (set or library) ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:17
L42	1	L41 and ((TATAAT and TTGACA and (upstream adj (activator or activation))) and (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:51

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L43	4	L41 and ((TATAAT and TTGACA ) and (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:51
L44	0	L43 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:54
L45	1	L41 and ((TATAAT and TTGACA and (upstream adj (activator or activation))) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:51
L46	735	((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:55
L47	9	L46 and (((optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (promoter near3 (set or library) )))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:56
L48	2	L47 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:57
L49	6	((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) same (spacer or linker)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:18
L50	1	L49 and (((optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (promoter near3 (set or library) )))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 13:57
L51	3	L49 and (promoter near3 (set or library) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:09
L52	2	L51 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:20

## EAST Search History

L53	8551	((optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:18
L54	2954	((optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (linker or spacer)) and promoter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:21
L55	1	L54 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) same (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:19
L56	1	L54 and ((TATAAT and TTGACA and activat\$\$) same (spacer or linker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:19
L57	4	L54 and ((TATAAT and TTGACA and activat\$\$) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:50
L58	66	L54 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:22
L59	8	L54 and(((TATA adj box) or TATA-box) and ((upstream adj activator) ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:21
L60	4	L58 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:22
L61	272	((optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (linker or spacer)) same promoter	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:48
L63	6	L61 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:23

## EAST Search History

L64	2	L61 and ((TATAAT and TTGACA and activat\$\$) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:23
L65	1	L63 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:22
L66	39	L61 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:49
L67	1	L66 and (promoter near3 (set or library) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:54
L68	1	L67 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:49
L69	0	L67 and ((TATAAT and TTGACA and activat\$\$) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:23
L70	15	(optimized or optimize or optimization or randomized or randomize or randomization or artificial) same (promoter adj (set or library))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:50
L71	1	L70 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:51
L72	3	L70 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:51
L73	2	L70 and ((TATAAT and TTGACA and activat\$\$) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:50

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L74	3	L70 and ((TATAAT and TTGACA ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:51
L75	28	(optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) same (promoter adj (set or library))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:52
L76	6	L75 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:55
L77	0	L76 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:54
L78	0	L76 and ((TATAAT and TTGACA ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:54
L79	5159	((optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) same expression) and ((modify or mutate or mutation or randomize or random) with promoter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:56
L80	394	L79 and (promoter near3 (set or library) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:54
L81	16	L80 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:57
L82	4	L80 and ((TATAAT and TTGACA ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:11



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L83	4	L81 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 14:57
L84	7864	((optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) same expression) and ((modify or mutate or mutation or randomize or random) with linker or spacer)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:00
L85	948	L84 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:01
L86	12	L85 and(((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:02
L87	2	L85 and ((TATAAT and TTGACA ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:00
L88	69369	((optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) same expression)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:08
L89	29	L88 and ((TATAAT and TTGACA) and ((modify or mutate or mutation or randomize or random) with linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:00
L90	2	L89 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:09
L91	132	L88 and (((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) ) and ((modify or mutate or mutation or randomize or random) with linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:02

## EAST Search History

L92	1	L88 and (((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) ) same ((modify or mutate or mutation or randomize or random) with linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:03
L93	132	L88 and (((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) ) and ((modify or mutate or mutation or randomize or random) with linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:09
L94	12	L93 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:03
L95	40161	((optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) same (linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:08
L96	14631	((optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) with (linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:08
L97	1714	((optimized or optimize or optimization or modified or randomized or randomize or randomization or artificial) near (linker or spacer))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:08
L98	16	L97 and (promoter near3 (set or library) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:09
L99	1	L98 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:10
L100	0	L99 and (((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:10

## EAST Search History

L101	3	L97 and (((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:11
L102	458	L97 and @ad<="19960823"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:10
L103	1	L102 and (((TATA adj box) or TATA-box) and ((upstream adj activator) or UAS or UASGCN4p or GCN4p) ) )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:11
L104	0	L102 and (((TATAAT and TTGACA ) ) same promoter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:12
L105	0	L102 and (((TATAAT and TTGACA ) ) and promoter)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:12
L106	0	L102 and (((TATAAT and TTGACA ) ))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/05/04 15:12